Electronic Acknowledgement Receipt				
EFS ID:	5753781			
Application Number:	10801208			
International Application Number:				
Confirmation Number:	2034			
Title of Invention:	Methods of manufacturing semiconductor devices having a ruthenium layer via automatic layer deposition			
First Named Inventor/Applicant Name:	Kwang-hee Lee			
Customer Number:	20792			
Filer:	D. Randal Ayers/Michele McMahan			
Filer Authorized By:	D. Randal Ayers			
Attorney Docket Number:	5649-1277			
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Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$180
RAM confirmation Number	8077
Deposit Account	500220
Authorized User	

File Listing:

1		5649_1277_SupplDS.pdf	268357	yes	3				
	3049_1277_3uppi03.pdf	731d19da934bece271ca97688036a06abea 597fc	yes						
	Multipart Description/PDF files in .zip description								
	Document Description		Start	End					
	Transmittal Letter		1	2					
	Information Disclosure Statement (IDS) Filed (SB/08)		3	3					
Warnings:									
Information:									
2 Foreign Reference	Foreign Reference	KR1020020094462.pdf	313797	no	10				
2 Toleign Neletence	1411020020031102.pdi	32abb1329b3b928f2cbe4a8ed366cfd7213 4ec04							
Warnings:									
Information:									
3 Fee Worksheet (PTO-875)	fee-info.pdf	29981	no	2					
		4ab0115cc388ea0a4d048d7a6ec535f8b48 0bc30							
Warnings:									
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Total Files Size (in bytes): 612135									
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.